PAVLOV, A., sud'ya vsesoyuznoy kategorii.

Under the sign of growth of mastery in sports. Voen. znan. 37 no.10:31-32 O '61. (MIRA 14:9)

(Military sports)

PAVLOV, A., sud'ya vsesoyuznoy kategorii

For the "Voennye znaniia" prize; Muscovites win the championship. Voen.znan. 37 no.5:34 My '61. (MIRA 14:4)

(Shooting contests)

(6)

BREYEV, B. D., Central Scientific Research Institute of Leather Footwear Industry, Moscow - "New trends of technologies, new factory equipments in the Soviet Union" Section 2-c

KOMLIKHOVA, N. B., Administrative Department of the Leather Trades Industries, Moscow - "Experiences of abrasion resistance of sole leathers" Section 1-d

PAVLOV, A., Prof. Dr., Moscow Technological Institute of Light Industry, Moscow - "Use of plastics in the shoe industry" Section 2-a

RODIONOV, A. M., Research Institute for the Fur Industry, Moscow - (Subject to be given later) Section 3-c

SVETKOV, V. N., Moscow Technological Institute of Light Industry, Moscow - "Principles of calculation of the strength of leather" Section 2-d

ZUBIN, Yu. F., Prof. Dr., Moscow Technological Institute of Light Industry, Moscow - "Principles of construction of rational last forms" Section 2-c

ZURABYAN, K. M., Central Scientific Research Institute of Leather Substitutes, Moscow - "Filling of the flabby parts of leathers" Section 1-d

report to be submitted for the Congress of the Scientific Society of the Leather, Shoe and Allied Industries, Budapest, Hungary, 3-6 Oct 1962

GORBACHEV, B.; PAVLOV, A.

Remediable limitations. Za rul. 19 no. 2:6 F '61. (MIRA 14:4)

1. Starshiy metodist Moskovskogo avtomobil'nogo mototsikletnogo kluba (for Pavlov).
(Automobile drivers)

PAVLOV, A., sud'ya vsesoyuznoy kategorii

A budding sportswoman. Voen.znan. 38 no.8:29-30 Ag '62.
(MIRA 15:8)

(Women as athletes) (Shooting)

Pavlov, A.

Application of mineral fertilisers to grasslands. A. Pavlov (*Anal. Inst. Cerc. agron. Romîn*, 1952—3, (1955), 22, 287—297).—Trials were carried out with NH_4NO_3, superphosphate, and K salts on old grassland on an alluvial clay soil which had a dominant growth of *Festuca pseudovina*. Increases in hay yields of up to 65% could be obtained. Superphosphate, by itself, gave no increase in yield but favoured the growth of *Lotus corniculatus*. (French summary).

J. S. C.

agr 1

PAVLOV, A.

"The Okhan Meteorite and Meteorites in General", Moscow [illegible]

PAVLOV, A.

Illumination apparatus for photography. Tekh.mol.22 no.3:36 Mr '54. (MLRA 7:2)
(Photography, Flashlight)

PAVLOV, A., sud'ya vsesoyuznoy kategorii

Under difficult conditions. Voen. znan. 36 no.1:31 Ja '60.
(MIRA 12:12)

(Rifle practice)

PAVLOV, A., sud'ya vsesoyuznoy kategorii

Why the marksman of Volunteer Society for Assistance to the Army, Air Force and Navy came out third. Voen.znan. 35 no.6:26-27 Je '59. (MIRA 12:12)
(Target practice)

PAVLOV, A.

USSR, Karelo-Finnish SSR

Location of Village and Mine im. Chkalov

Source: N: Leninskoye Znamya, Petrozavodsk, 1947

Abstracted in USAF "Treasure Island" Report No. 19904, on file in Library of Congress, Air Information Division.

PAVLOV, A.; DEMICHEVA, D., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

[Textiles made of staple fiber on automatic looms.] Shtapel'-nye tkani na avtomatakh.[Moskva] Izd-vo VTsSPS Profizdat, 1954. 71p. (MLRA 8:3)

(Textile industry)

PAVLOV, A.

All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy for new state farms. Voen.znan. 31 no.3:8 Mr '55. (MLRA 8:7)

1. Zamestitel' predsedatelya respublikanskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Kazakhskoy SSR, Alma-Ata.

(Kazakhstan--Military education)

PAVLOV, A.

In the school for aviation sportsmen. Kryl.rod. 2 no.10: 18-19 O '51. (MLRA 8:8)
(Flight training)

PAVLOV, A.

"Sentinels of the motherland" by A. S. Sgibnev. Reviewed by A. Pavlov. Voen. znan. 38 no.9:39 S '62. (MIRA 15:9)
(Russia—Army) (Sgibnev, A.S.)

PAVLOV, A.

Air bandits. Kryl.rod. 2 no.6:22-23 Je '51. (MLRA 8:8)
(Korean War, 1950-1953)

PAVLOV, A. (Vitebsk)

From the experience of model ship builders. Voen.znan. 32 no.11:24 N '56. (MIRA 10:10)

1. Instruktor morskogo kluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

(Ship models)

PAVLOV, A.

"Elektron." Sov. foto 18 no.5:49-50 My '58. (MIRA 11:5)
(Photography, Flashlight)

PAVLOV, A.; FROLOV, S.

All-Union marksmanship contests between the cities for the "Voennye znaniia" prize. Voen. znan. 34 no.2:27-28 F '58. (MIRA 11:3)

1. Sud'ya vsesoyuznoy kategorii (for Pavlov).
(Shooting contests)

PAVLOV, A., inzh.

Large-panel gypsum partitions. Stroitel' no.5:21 My '58. (MIRA 11:6)

(Gypsum) (Walls)

PAVLOV, A., inzh.

Concrete foundation blocks with closed cavities. Stroitel' no. 8:21 Ag '58. (MIRA 11:8)

(Foundations)
(Concrete blocks)

AUTHOR: Pavlov, A. SOV/25-58-11-25/44

TITLE: Control of Processes (Upravleniye protsessom)

PERIODICAL: Nauka i zhizn', 1958, Nr 11, pp 66-67 (USSR)

ABSTRACT: Engaged in research on the control of chemical processes, the well-known Soviet scientist Academician N.N. Semenov and Professor N.M. Emanuel' recently succeeded in mastering the process of the oxidation of hydrocarbons. In 1958, N.M. Emanuel' received the Lenin Prize for this research, the results of which were demonstrated at the Brussels Fair. Based on these facts, Professor Emanuel' evolved the theory of complicated chemical processes as consisting of macrostages. However, Professor Emanuel' and his co-workers not only investigate particuliarities of complicated processes, but also try to develop them to the state of technological perfection, e.g., his method of the oxidation of combustible hydrocarbon gases is in full production.

Card 1/1

PAVLOV, A., inzh.

Coarse porous concrete made with cementless binders. Stroitel' no.5:24 My '59. (MIRA 12:8)
(Concrete)

PAVLOV, A.

Process control. Nauka i zhizn' 25:66-67 N '58. (MIRA 11:12)

(Chemical industries)

SOV/27-59-4-16/28

22(1)

AUTHOR: Pavlov, A., Foreman-Instructor

TITLE: The Working-Days of a Foreman

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 4, pp 22-23 (USSR)

ABSTRACT: The Moscow Technical School Nr 6 is admitting young people who have graduated from a secondary school and possess a diploma. It trains turners, milling machine operators, mechanics, and radio technicians. As a rule, the number of applicants exceeds that of the admittance plan, but not all of those enrolled have the firm intention of becoming craftsmen. Some regard the school only as an intermediate station and just try to "carry on" before a possibility opens to enter an institute, etc. The author describes how he tries to arouse in them an interest for their chosen vocation by explaining what the profession consists of. He shows them the T-65 turning lathe, manufactured in the school, and tells them that they will not be trained to become only simple fitters, but will manufacture and

Card 1/2

The Working-Days of a Foreman

assemble parts of machine tools. The training period in the technical schools is only 10 months, and it depends greatly on the foremen whether, in this short time, the students will be instilled with a liking for their profession and whether the school will turn out well trained and skilled craftsmen. The author states that parents' meetings take place every 3 months at which the successes and shortcomings of the students are discussed.

ASSOCIATION: Tekhnicheskoye uchilishche Nr 6, Moskva (Technical School Nr 6, Moscow).

PAVLOV, A., starshiy metodist; GOL'DENBERG, E., starshiy metodist

Self-financing; how to organize it? Za rul. 20 no.9:26-27 S '62. (MIRA 15:9)

1. Moskovskiy gorodskoy avtomotoklub.
(Motor vehicles--Societies, etc.)

RAKHMATULLIN, S. (Birsk); VATLETSOV, V. (Kirov); PAVLOV, A. (Moskva); RYAZANOV, A. (Sverdlovsk); PARAMONOV, N. (Maykop)

In local organizations of our patriotic society. Za rul. 19 no.10:3 O '61. (MIRA 14:11)
(Motor vehicles—Societies, etc.)

PAVLOV, A., starshiy metodist; ZINGER, G.

Mikhail D'iakov guides a study group. Za rul. 19 no.8:22-23 Ag '61. (MIRA 14:9)
(Traffic regulations--Study and teaching)

PAVLOV, A., sud'ya vsesoyuznoy kategorii

Experience of the winners should go to all clubs. Voen. zhan. 35 no.2:31-32 F '59. (MIRA 12:6)
(Shooting contests)

PAVLOV, A., ~~sudiya~~ vsesoyuznoy kategorii

Youth moves ahead. Voen. znan. 38 no.9:27-28 S '62. (MIRA 15:9)

(Shooting)

PAVLOV, A.

Spokesman of the collective. Sov.shakht. 11 no.6:23-24 Je '62.
(MIRA 15:6)

(Coal miners)

L

RUMANIA/Meadow Cultivation.

Abs Jour : Ref Zhur Biol., No 14, 1958, 63267

Author : Pavlov, A.
Inst : -
Title : The Study of Grass Mixtures for Artificial Meadows.

Orig Pub : An. Inst. cercetari agron., 1957, 24, No 5, 195-211

Abstract : At the experimental agricultural station of Synpetrin de Muresh (RPR), four mixtures of perennial grasses were studied for the purpose of ascertaining the proper grass mixtures for developing artificial meadows and the bottom lands of the Muresh, Tyrnovy Mare, Tyrnovy Mik and Miraus rivers. It was ascertained that the most suitable grass mixtures for these regions are mixtures of Medicago sativa, 10%; Lotus corniculatus, 10%; Trifolium repens, 5%; T. pratense, 5%; Festuca pratensis, 15%; Dactylis glomerata, 15%; Arrhenatherum elatius, 10%; Bromus inermis, 10%; Lolium perenne, 10%; and

Card 1/2

- 12 -

RUMANIA/Meadow Cultivation. L

Abs Jour : Ref Zhur Biol., No 14, 1958, 63267

Phleum pratense, 10%. The sowing of the grass mixtures should be conducted early in the spring without cover cultivations at a rate of 35.5 kg of the seeds per hectare. Recommendations on agro-engineering are submitted.

Card 2/2

PAVLOV, A., inzh.

Conclusions derived from practice. Gor. shakht. 10 no.9:24 S '61. (MIRA 14:8)

1. Shakhta No.42 "Kurakhovka" kombinata Stalinugol'. (Mining engineering)

PAVLOV A. B-I-4

Determination of the dimensions of blast furnaces. A. Pavlov (Rev. Mét., 1937, 34, 215—234, 264—275, 327—338, 363—384, 423—428).—The history of the development of the size and contour of furnaces is outlined, with special reference to the old charcoal furnaces in Russia. The essential dimensions of furnaces representative of blast-furnace practice in various countries are given and methods for estimating the capacity and optimum dimensions of various parts such as tuyères, hearth, and throat are discussed. W. P. R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

L 02514-67 EWT(d)

ACC NR: AP6023007 (N) SOURCE CODE: UR/0308/66/000/004/0024/0025

AUTHOR: Pavlov, A. (Senior engineer) 55

ORG: Administration of Communications and Electroradionavigation MMF (Upravleniye svyazi i elektroradionavigatsii MMF) B

TITLE: Marine reception indicator for "Pirs-1" phase radionavigation systems 9

SOURCE: Morskoy flot, no. 4, 1966, 24-25

TOPIC TAGS: navigation system, radio guidance, MARITIME RADIO

ABSTRACT: The article describes a newly developed reception indicator designed for installation in the merchant fleet. This instrument makes it possible to determine a ship's position by signals from the sho stations of a phase radionavigation system. Either the time or the frequency can be varied. The article describes three different models of the apparatus. All three types are designed to be fed from the ship's electric circuit, and operate at voltages of 220 and 127 and a frequency of 50 cycles. The system operates from a vertical marine antenna with a length of 4 meters or more, installed at an angle of 50-60° to the horizontal. The instrument is designed for continuous operation for a

Card 1/2 UDC: 656.052:621.396.932.1

L 02514-67

ACC NR: AP6023007 O

period of 48 hours, with a rest period of not less than 2 hours, and a speed of the vessel up to 25 knots. Installation of the instrument aboard ship is scheduled to start this year. Orig. art. has: 3 figures and 1 table.

SUB CODE: 17/ SUBM DATE: none

Card 2/2 egk

S/123/62/000/015/009/013
A052/A101

AUTHORS: Zotov, A. I., Akinfiyev, M. I., Pavlov, A. A.

TITLE: Application of ultrasound in the technique of ferrite production

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1962, 23, abstract 15B144 (In collection: "Primeneniye ul'trazvuka v tekhnol. mashinostr". Moscow, no. 2, 1960, 134 - 138)

TEXT: The possibility was investigated of the application of ultrasound to grinding and intermixing metal oxides of which the charge for forming ferrites is prepared. The experiments were carried out using a УЗГС (UZGS) ultrasonic generator with a magnetostriction converter. The main parameters determining the processes of grinding and intermixing charge materials are: oscillation frequency, relation between the amount of liquid and the material ground, the thickness of the irradiated ground layer, the intensity of ultrasonic and audio oscillations, cavitation capacity of the liquid and the irradiation time. It is established that the dispersion of the powder ultrasonically ground during 10 min is higher than that of the powder ground in ball mills during 24 hours or in a vibration

Card 1/2

S/194/62/000/005/084/157
D222/D309

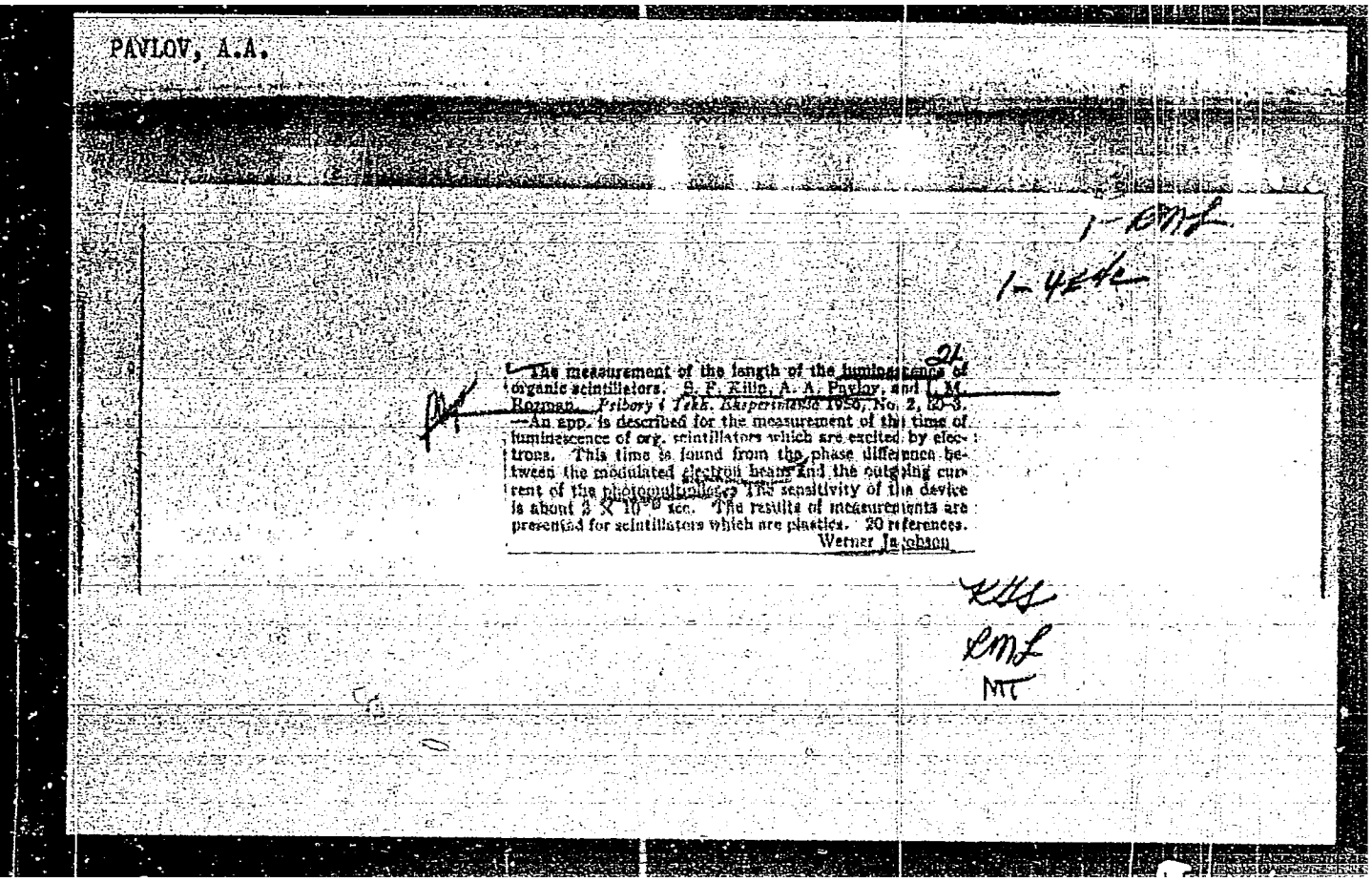
AUTHORS: Akinfiyev, M.I., Zotov, A.I., and Pavlov, A.A.

TITLE: Galvanic coating of aluminum and its alloys with the interaction of ultrasound

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-5-40 ye (V sb. Primeneniye ul'trazvuka v tekhnol. mashinostr. no. 2, M., 1960, 149 - 154)

TEXT: The influence of ultrasound on the electro-chemical processes is examined and the positive action of cavitation is noted. It is shown that the ultrasonic oscillations facilitate the depolarization of the electrodes and the degassing of the liquid. The investigation of the action of ultrasound on the galvanic coating of aluminum was carried out at 18-23 kc/s frequencies, using a PMS-6 (PMS-6) transducer. The transducers were mounted on a diaphragm of variable thickness, 2 - 10 mm, being the bottom of the bath. During zinc and copper plating of aluminum in cyanogen electrolytes, the current density was reduced to 27 a/dm^2 and a better adherence of

Card 1/2



PAVLOV, A.A.

1-EML
1-4444

24

The measurement of the length of the luminescence of organic scintillators. S. F. Kilin, A. A. Pavlov, and L. M. Rozman. *Pribory i Tekh. Eksperimenta* 1956, No. 2, 80-3.
—An app. is described for the measurement of the time of luminescence of org. scintillators which are excited by electrons. This time is found from the phase difference between the modulated electron beam and the outgoing current of the photomultiplier. The sensitivity of the device is about 2×10^{-9} sec. The results of measurements are presented for scintillators which are plastics. 20 references.
Werner Jacobson

KLS
EML
MT

PAVLOV, A.A., veterinarnyy vrach.

Clinical manifestations of mineral dificiency in herbivorous farm animals. Veterinariia 30 no.7:39-40 Jy '53. (MLRA 6:7)

PAVLOV, A.A

MITEREV, G.A.; PAVLOV, A.A.; RYAZANOV, V.A.

In memory of N.V.Geminov. Gig. i san. no.10:64 O '54. (MLRA 7:11)
(GEMINOV, NIKOLAI VLADIMIROVICH, -1954)

PAVLOV, A.A.

PAVLOV, A.A., prof.

Change in water-bearing strata induced by hydrostatic pressure of a reservoir. Gig. i san. 22 no.11:75-76 N '57. (MIRA 11:1)
(WATER SUPPLY
in Russia, hydrostatic pressure of reservoir changing regime of water-bearing strata (Rus))

PAVLOV, A.A.

SHAPIRO, V.Ya.; PAVLOV, A.A.

Determining some parameters of a pipe drawing process using a "Floating" mandrel. TSvet. met. 30 no.11:54-60 N '57. (MLRA 10:11)

1. Revdinskiy zavod po obrabotke tsvetnykh metallov.
(Drawing (Metalwork))

PAVLOV A.A

AUTHORS: Shapiro, V.Ya. and Pavlov, A.A. 136-11-10/1

TITLE: Determining Certain Relationships in Connection With Tube Drawing on a "Floating" Mandrel (Opredeleniye nekotorykh sootnosheniy pri volochenii trub na "plavayushchey" opravke)

PERIODICAL: Tsvetnyye Metally, 1957, no.11, pp. 54 - 60 (USSR).

ABSTRACT: In the method dealt with in this article, an unattached mandrel is placed in the tube being drawn, the mandrel shape being such that it stays in the deformation zone. Reference is made to the work of Orro (Ref.5), described as the most detailed available on such methods. The present article consists mainly of an account of experiments in which Yu.V. Timinskiy participated at the Revdinskiy non-ferrous metals treatment works. The object of the first part of the experimental work was to determine the conditions under which the floating-mandrel process will operate without tearing or idle passes to give tubes with a good inner surface. The factors studied were the dimensions of the tubes drawn and mandrel shape and size. The equation deduced was used to calculate drawing conditions in a concrete case and the possibility of reducing the number of different mandrels required and of using different billet dimensions was studied. The results obtained suggested that it might be possible to draw thick-walled tubes, but further data are

Card 1/2

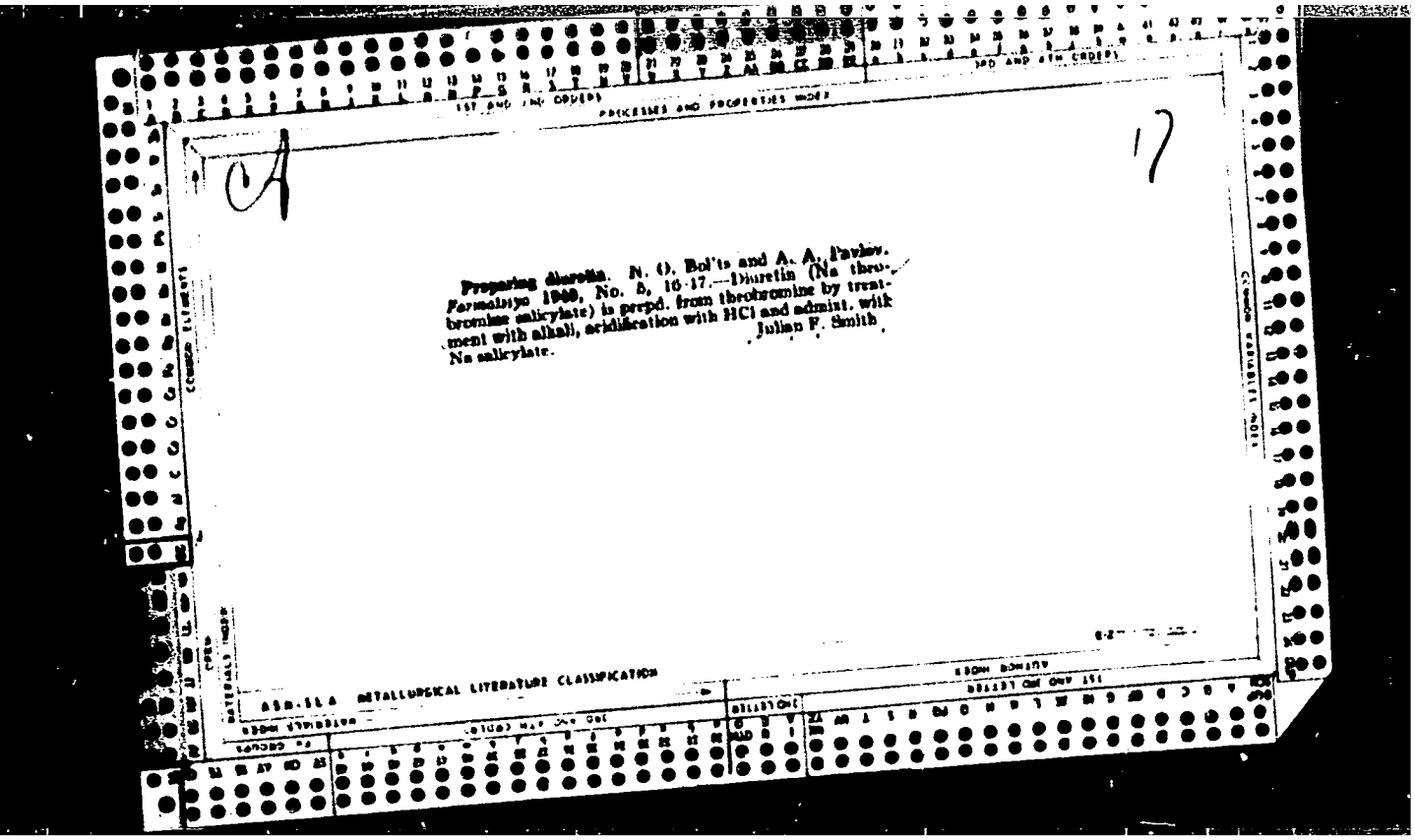
Determining Certain Relationships in Connection With Tube Drawing on a "Floating" Mandrel. 136-11-10/17

necessary. For ordinary tubes of copper or copper-zinc alloy, the work established the suitability of the "floating" mandrel technique. The external diameter of the finished tube must be equal to the internal diameter of the billet + approximately 1 mm and it was on this basis that the authors calculated drawing conditions. It was found that the length of the cylindrical part of the mandrel had no appreciable effect on the drawing process, but the angle of inclination of the generatrix of the cone of the mandrel should not exceed that of the generatrix of the die cone.
There are 8 figures and 5 Russian references.

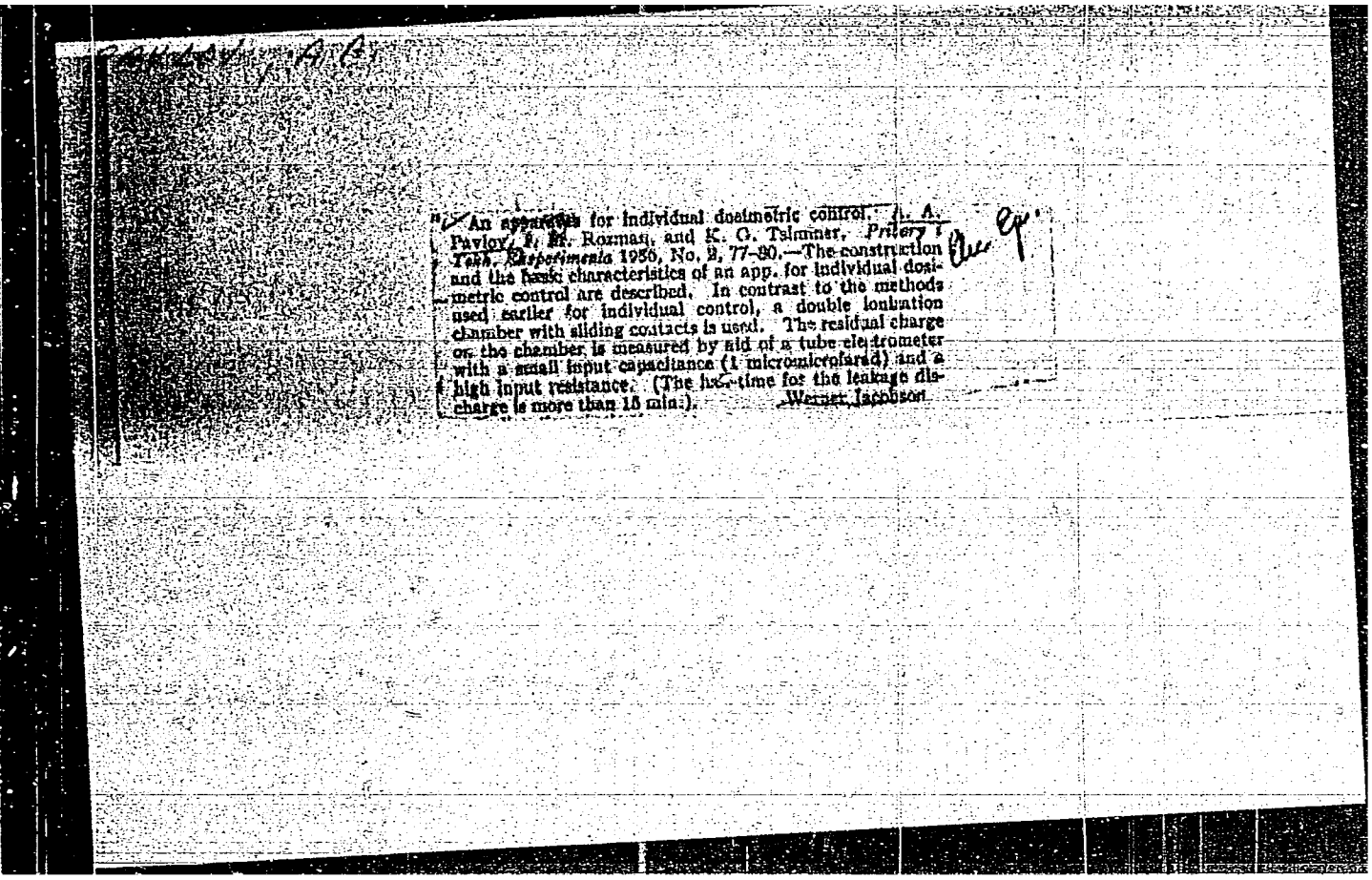
ASSOCIATION: Revda Plant for Treatment of Non-ferrous Metals (Revdinskiy zavod po obrabotke tsvetnykh metallov)

AVAILABLE: Library of Congress

Card 2/2 1. Tubes-Drawing 2. Mandrels-Applications



Preparing diuretin. N. O. Bol'ts and A. A. Pavlov. *Farmatsiya* 1940, No. 5, 16-17.—Diuretin (Na theobromine salicylate) is prepd. from theobromine by treatment with alkali, acidification with HCl and admixt. with Na salicylate.
Julian F. Smith.



An apparatus for individual dosimetric control. L. A. Pavlov, F. M. Roxmas, and K. G. Talmmer. *Priory i Tekh. Eksperimenta* 1956, No. 2, 77–80.—The construction and the basic characteristics of an app. for individual dosimetric control are described. In contrast to the methods used earlier for individual control, a double ionization chamber with sliding contacts is used. The residual charge on the chamber is measured by aid of a tube electrometer with a small input capacitance (1 micromicrofarad) and a high input resistance. (The half-time for the leakage discharge is more than 15 min.). Werner Jacobson

BESHKETO, V.K., kand.tekhn.nauk (g.Novosibirsk); PAVLOV, A.A., inzh. (g.Novosibirsk)

Effectiveness of the specialization of unloading points. Zhel. dor.transp. 42 no.6:25-29 Je '60. (MIRA 13:7)
(Railroads--Freight)
(Loading and unloading)

BESHKETO, Vsevolod Kupriyanovich, kand. tekhn. nauk; GRIDASOV, Nikolay Ardreyevich, inzh.; KUZ'MIN, Aleksandr Nikolayevich, inzh.; PAVLOV, Aleksandr Anatol'yevich, inzh.; EYGEL', I.Yu., inzh., red.; MAKUNI, Ye.V., tekhn. red.

[Specialized unloading points] Spetsializirovannye bazy vygruzki. [By] V.K.Beshketo i dr. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 78 p. (MIRA 15:3)

(Loading and unloading)

PAVLOV, A.A.

Production of the antibiotic tetracycline at the Karpov Plant.
Med.prom. 11 no.11:63 N '57. (MIRA 11:1)
(ANTIBIOTICS)

35706
S/123/62/000/005/005/010
A052/A101

1.1800
AUTHORS: Akinfiyev, M. I., Zotov, A. I., Pavlov, A. A.

TITLE: Plating aluminum and its alloys under action of ultrasound

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1962, 43, abstract 5B255 (V sb. "Primeneniye ul'trazvuka v tekhnol. mashinostr." Moscow, no. 2, 1960, 149-154)

TEXT: The results are presented of an investigation of the effect of ultrasound on the zinc, copper and silver plating of aluminum and aluminum alloy (АМЦ, АМК, АМГ) (AMTs, AMK and AMG) articles. It is shown that the application of ultrasound to plating on aluminum produces a higher quality of the coating than at the usual electro-deposition. The parts plated under action of ultrasound withstand heating up to 180°C and 30 days' testing in a chamber simulating tropical climate (temperature 40°C, humidity 98%) without the coating scales. The application of ultrasound makes it possible to get rid of a number of preliminary operations (the surface preparation, with the exception of rough degreasing, is carried out in the electrolyte itself in 3-4 min) and also to perform the process at high current densities, which contributes to a considerable

Card 1/2

S/048/60/024/007/032/037 XX
B104/B20

AUTHORS: Vitman, V. D., Dzhelepov, B. S., Pavlov, A. A., Semenov, S. V., and Shestopalova, S. A

TITLE: Determination of the ratio of the number of quanta of K and L emission of some neutron-deficient isotopes

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 24, no. 7, 1960, 934-938

TEXT: The present paper has been read at the 10th All-Union Conference on Nuclear Spectroscopy, Moscow, January 19-27, 1960. A proportional counter served to measure the relative intensities of the K- and L emissions of Ho^{160}, Dy^{159}, Nd^{140}, Pr^{140}, and Sm^{145}. These isotopes were obtained by the chromatographic separation of rare earths, the latter being chemically separated from a tantalum target irradiated with 660-Mev protons on the synchrocyclotron of the OIYaI. The experimental system was calibrated by Zn^{65}, Se^{75}, In^{114}, Cs^{137}, and Sm^{145}, the relative half-widths of the lines being 5-12%. The ratio of the numbers of L- and K emission quanta is put

Card 1/5

S/048/60/024/007/032/032/XX
B104/B2C

Determination of the ratio of ...

proportional to the ratio of the area of the lines measured. $N_L/N_K - kS_L/S_K$ (N_L and N_K are the numbers of quanta, S_L and S_K the areas bounded by the line contours). The S_K and S_l were found from the lines determined experimentally after deduction of the background. The latter was determined by means of a filter made of 0.8 mm cadmium, 0.5 mm copper and 0.5 mm aluminum. Quanta up to 60 kev were completely absorbed by this filter, quanta with more than 200 kev were allowed to pass. Results are collected in Table 1. With the aid of these values, the ratios λ_L/λ_K between the capture probabilities of the electrons from L- and K shells were calculated. These values are given in Table 2. It is noted however that they exhibit a considerable error. There are 1 figure, 2 tables, and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev)

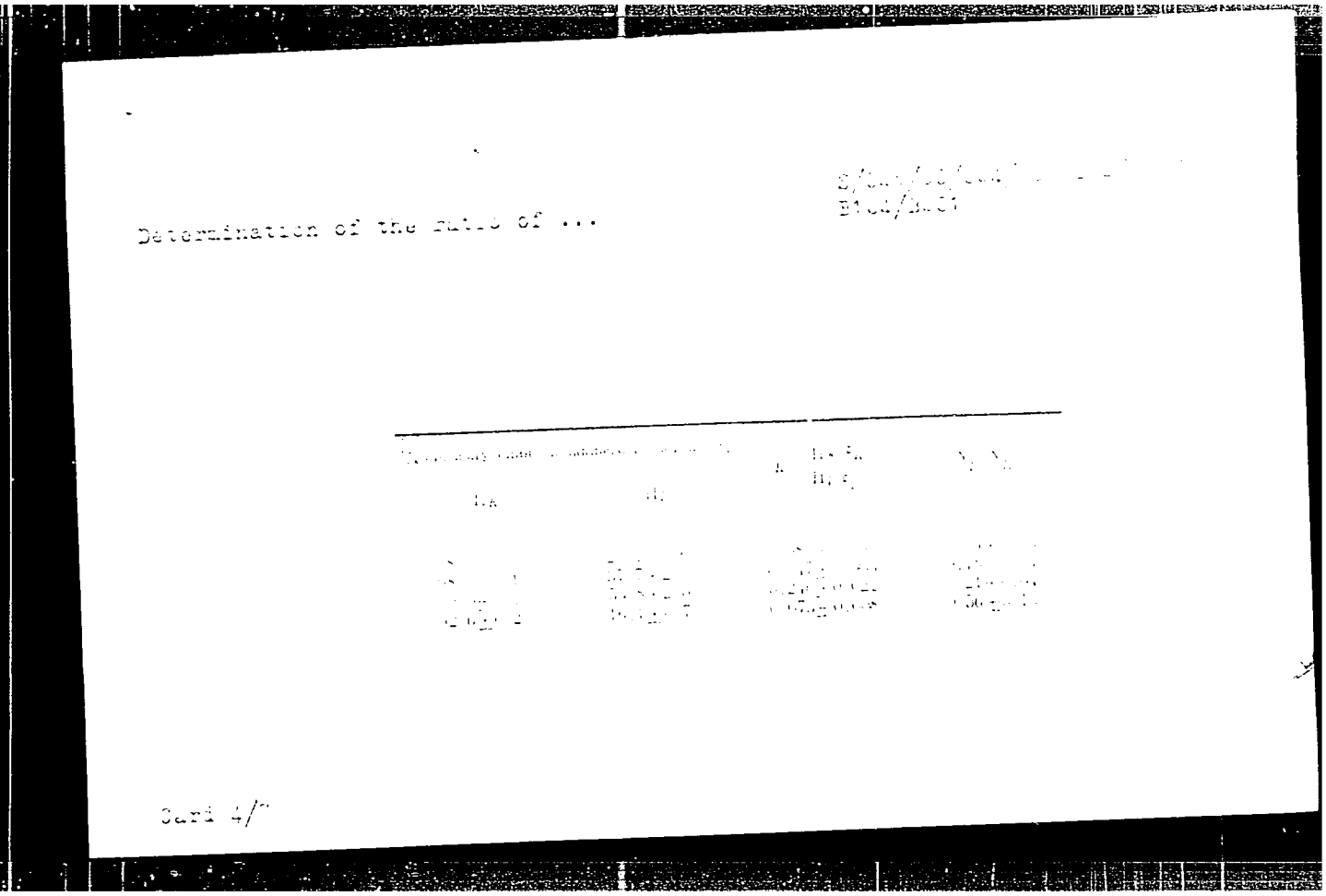
Card 2/7

[illegible]termination of the ratio of ... [illegible]

[illegible] to [illegible] 1: [illegible] of the ratio of [illegible]
[illegible], efficiency of counter [illegible]; [illegible], contribution of radiation [illegible]
the counter.

[illegible]	[illegible]	[illegible]	
		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7.0±1.1	[illegible]	[illegible]

Card 3/7



Determination of the ratio of ...

Card 4/

S/048/60/024/007/032/032/[illegible]
B104/B101

Determination of the ratio of ...

Legend to Table 4: Determination of the ratio λ_L/λ_K. [illegible] of vacancies forming in the L-shell [illegible] of the vacancies in the [illegible] is occupied; [illegible] and [illegible], fluorescence yield; [illegible] and [illegible], number of [illegible] electrons hitting the counter per decay; [illegible] transitions, (b, W_K and W_L, data calculated according to [illegible] (Phys. Rev., 11[illegible], 23[illegible] ([illegible])), c, W_K and W_L calculated according to data of Brosi et al. (Phys. Rev. 11[illegible], [illegible] ([illegible]), (d) W_K and W_L calculated according to data by Grigor'yev et al. (Izv. AN SSSR. Ser fiz., 1[illegible], [illegible]), (e) the following values were used in the calculation of λ_L/λ_K for Nd^{140}: β^+ - 55%, K - 41%, and L - 6%.

Card 5/7

S/048/60/024/007/032/032/XX
B019/B056

24.6600

AUTHORS: Vitman, V. D., Dzhelepov, B. S., Pavlov, A. A., Semenov, S.V., and Shestopalova, S. A.

TITLE: The Determination of the Ratio of the Number of Quanta of Roentgen K- and L-Emission of Some Neutron-deficient Isotopes

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 7, pp. 934-938

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. By means of a proportional counter, the relative intensities of the K- and L-emissions of Ho^{160}, Dy^{159}, Nd^{140}, Pr^{140}, and Sm^{145} were measured. The rare earths, from which the sources were chromatographically separated, were obtained by the authors by irradiating a target with 660-Mev protons on the synchrocyclotron of the OIYaI. The entire experimental arrangement was calibrated on Zn^{65}, Se^{75}, In^{114}, Cs^{137}, and Sm^{145}. the relative halfwidths of the lines were 15 - 12%. The ratio of the

Card 1/2

VITMAN, V.D.; DZHELEPOV, B.S.; PAVLOV, A.A.; SEMENOV, S.V.; SHESTOPALOVA, S.A.

Determining the correlation between the quantum numbers of the K and L X-ray lines of some neutron deficient isotopes. Izv.AN SSSR Ser.fiz. 24 no.7:934-938 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I.Mendeleyeva.
(Isotopes--Spectra) (X rays)

PAVLOV, A.A., inzh.

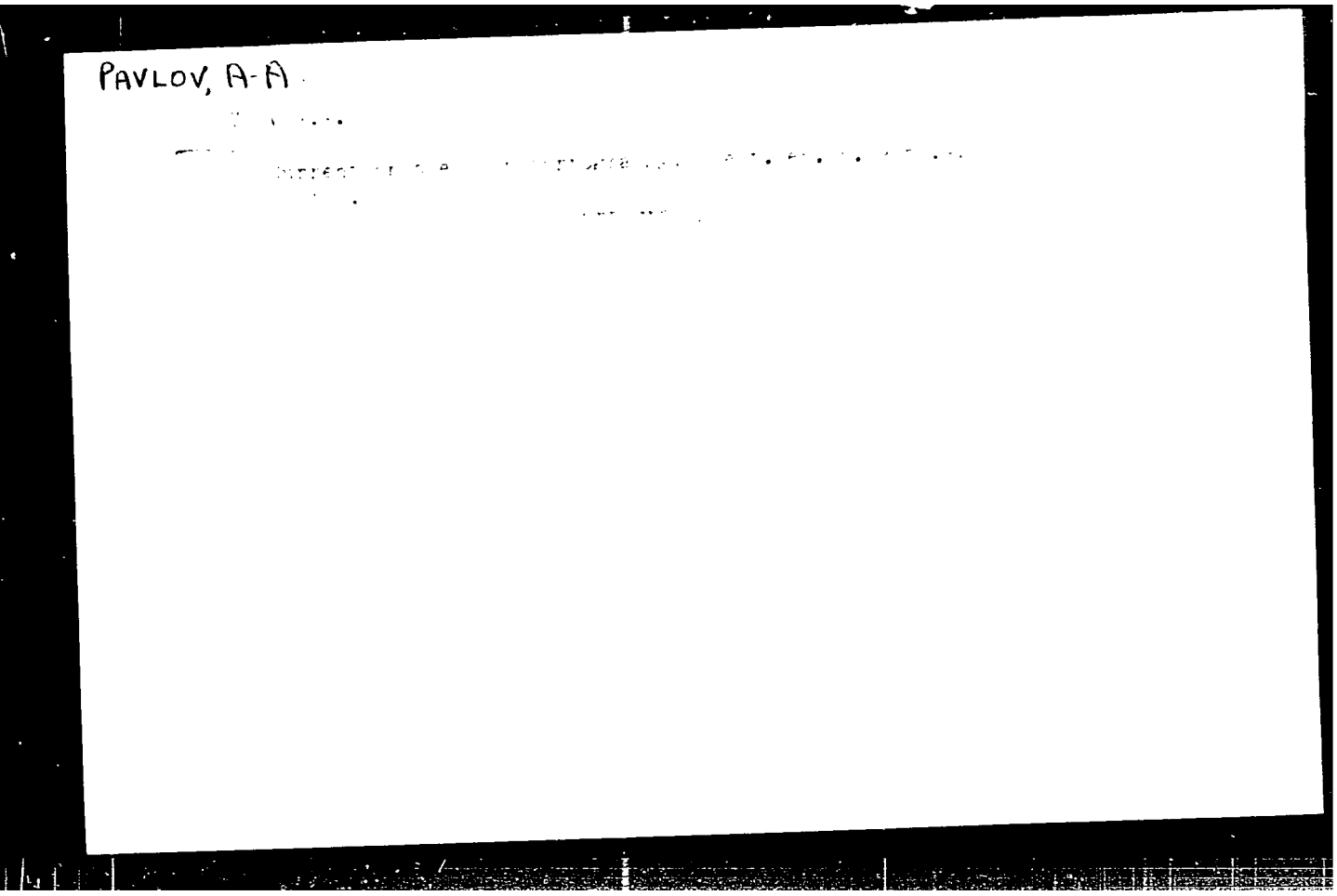
New marine radio transmitters. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.8:47-52 '62. (MIRA 16:5)

1. Upravleniye svyazi i elektroradionavigatsii.
(Radio--Installation on ships)

PAVLOV, A.A. (Moskva)

Dynamics of high-speed relay servomechanisms with time delay.
Izv. AN SSSR. Otd. tekh. nauk. Tekh. kib. no.1:172-189 Ja-F '63.
(MIRA 16:7)

(Servomechanisms)



PAVLOV, A. A.

4328. PAVLOV, A. A. --Prakticheskiye i laboratornyye raboty po kursu topografii s osnovami kartografii. L., Izd-vo Leningr. U.N.-ta, 1954. 110s s chert.; 6 otd. L. chert. 1 kart. 20 sm. (Leningr. gos. ordena Lenina un-t im. A. A. Zhdanova. otd. zaoch. obucheniya. Georgr. fak. Metod. ukazaniye No. 1). 1.000 ekz. bespl. --Na obl. avt. ne ukazan.--(55-4254)

526(076.5)

SO: Knizhnaya Letopsis', Vol. 1, 1955

PAVLOV, A.A.

Classification of geographical maps. Vest.Len.un. 10 no.4: 63-73 Ap '55. (MLRA 8:8)
(Classification--Maps)

PAVLOV, A.A.

"Geodesy: Textbook for geography departments of state universities."
Vest.Len.un.10 no.7:137-140 J1'55. (MLRA 8:12)
(Geodesy) (Denzin,P.V.)

PAVLOV, A.A.

Classification and designation of cartographic projects. Vest.Len. un.11 no.12:103-109 '56. (MIRA 9:9)
(Cartography)

PAVLOV, A.A.

"Mathematical cartography in the U.S.S.R. Part 1. Outline history and reference data." G.A.Ginzburg, N.S.Karpov, T.D.Salmanova. Reviewed by A.A.Pavlov. Vest.Len.un. 11 no.12:110-112 '56. (MIRA 9:9)
(Cartography) (Ginzburg, G.A.) (Karpov, N.S.) (Salmanova, T.D.)

PAVLOV, A.A.

"Theory of homographic trasformation and its application to mathematical cartography and compilation of maps" by N.A. Urmaev. Reviewed by A.A. Pavlov. Uch. zap. LGU no.226:228-231 '58. (MIRA 11:11)
(Cartography)
(Urmaev, N.A.)

PAVLOV, A.A.

Projections for world maps with overlap. Uch. zap. LGU no.226: 152-165 '58. (MIRA 11:11)
(World maps)

IZ'YUROVA, E.A.; PAVLOV, A.A.

Table of Gauss' coordinates for a broad zone of the grid system.
Uch. zap. LGU no.226:166-181 '58. (MIRA 11:11)
(Cartography--Tables, etc.)

ISAKOVA, L.N.; PAVLOV, A.A.

Measuring areas on maps in Mercator's projection. Uch. zap. LGU no.226:201-211 '58. (MIRA 11:11)
(Cartometry)

PAVLOV, A.A.

Projection and composition of maps of the Eastern and Western Hemispheres in a geographical atlas for primary schools. Uch. zap. LGU no.226:222-224 '58. (MIRA 11:11)
(Atlases)

PAVLOV, A.A.

Unsuccessful manual on cartography ("Plotting and editing general geographical maps" by V.I.Sukhanov. Reviewed by A.A.Pavlov). Vest.LGU 14 no.18:133-135 '59. (MIRA 12:8)
(Geography--Maps) (Sukhanov, V.I.)

PAVLOV, A.A.

Terminology in mathematical cartography. Geog.sbor. no.13: 49-62 '59. (MIRA 12:6)
(Maps--Terminology)

ISACHENKO, A.G.; PAVLOV, A.A.; SEMEVSKIY, V.N.

Results of the third conference of the All-Union Geographical Society. Vest. LGU 15 no.18:153-156 '60. (MIRA 13:9)
(Geographical societies)

MOVSHITS, G.B.; PAVLOV, A.A.

Processing of cartographic material from one projection into another by means of the FTB phototransformer. Vest.LGU 16 no.18:86-97 '61. (MIRA 14:10)
(Map projection)

L 47448-66 EWT(1) GW

ACC NR: AP6014708 (A) SOURCE CODE: UR/0307/65/000/004/0148/0149

AUTHOR: Pavlov, A. A.

ORG: none

TITLE: New manuals on mathematical cartography

SOURCE: Leningrad. Universitet. Vestnik. Seriya geologii i geografii, no. 4, 1965, 148-149

TOPIC TAGS: map, cartography, surveying, mapping, topography, geography

ABSTRACT: Two works dealing with the science of mathematical cartography are reviewed. These works are "Primeneniye v matematicheskoy kartografii metodov chislennogo analiza," Trudy TsNIIGAiK, vyp. 153, 1962, and "Posobiye po matematicheskoy kartografii," Trudy TsNIIGAiK, vyp. 160, 1964, both by G. A. Ginsburg and T. D. Salmanova. The latter work includes information on the application of methods of computational analysis to mathematical cartography. While it is addressed mainly to the people actually engaged in cartography, this work is also recommended for course study in the higher and intermediate schools. A brief outline of the content of the article is given. The reviewer criticizes the presentation of coordinate systems and commends the authors for the manner in which numerical examples and problems are developed. The amount of numerical computations included

Card 1/2

Card 2/2 mjs

L 04163-67 EWT(1) GW

ACC NR: AT6023231 (N) SOURCE CODE: UR/2732/66/044/000/0185/0188

AUTHOR: Mal'tsev, V. N.; Pavlov, A. A.; Vaygachev, A. Z.

ORG: none

TITLE: Geodetic surveys in the Alasheyev Bay

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955- . Sed'moy reys d/e "Ob'", 1961-1962 gg.; nauchnyye rezul'taty i materialy nablyudeniy (Seventh voyage of the diesel-powered "Ob'", 1961-1966; scientific results and observation data); trudy ekspeditsii, v. 44. Leningrad, Gidrometeoizdat, 1965, 185-188

TOPIC TAGS: geodetic survey, Antarctic climate, oceanographic expedition, ~~ocean bottom~~, OCEAN FLOOR TOPOGRAPHY, AERIAL SURVEY, SHIPNAVIGATION, ALASHEYEV BAY

ABSTRACT: Geodetic surveys were carried out by the hydrographic group of the seventh Antarctic expedition in 1962 on the coast of Alasheyev Bay in the region of the new Antarctic station Molodezhnaya to set up a geodetic base for coordinating the ground and air photographic surveys and for a visual determination of the location of a ship at the approaches to the coast of the bay. As a result of investigating the bottom relief of the sea in the coastal part of Alasheyev Bay it was possible to find a channel for the safe approach to the shore and a convenient place for mooring the ship Ob' immediately next to a barrier for unloading. The safety of the

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ACC NR: AT6023231

approach of the ship to the site of unloading is ensured by two line-of-direction beacons having the form of wooden panels. The rear beacon was placed on the outcrops of bedrock and the front beacon on the continental ice. The true direction of the line is 151°42'.8-331°42'.8. The entire geodetic set of points on the coast of Alasheyev Bay encompasses a region with an area of about 15 km^2, in the center of which is the Molodezhnaya station. This set of points will be used in the future to determine the elements of glacier movement and will be extended eastward on Lamykin Peninsula in order to survey the entire peninsula, which will make it possible for ships to use the polynya forming along the peninsula to approach the station and thus facilitate sailing conditions in this region. Orig. art. has: 1 table.

SUB CODE: 08/ SUBM DATE: 13Dec65

Card 2/2 fdh

ACC NR: AP7005595 SOURCE CODE: UR/0413/67/000/002/0009/0010

INVENTOR: Dorokhov, A. I.; Pavlov, A. A.

ORG: None

TITLE: A method for producing pipes with longitudinal external ribbing. Class 7, No. 190314 [announced by the All-Union Scientific Research Institute for Design and Technological Planning in the Pipe Industry (Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tekhnologicheskiy institut trubnoy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 9-10

TOPIC TAGS: pipe, metal forming, metal drawing, metal rolling

ABSTRACT: This Author's Certificate introduces a method for producing pipes with longitudinal external ribbing. The procedure includes roll-mill production of a ribbed pipe with final wall and diameter dimensions. In order to produce ribs with a height greater than twice the thickness of the pipe wall, the ribbed pipe is drawn on a mandrel through a roller plate which produces the ribs only with respect to width.

SUB CODE: 13/ SUBM DATE: 04Nov65

UDC: 621.774.8

Card 1/1

PAVLOV, A.A. (Moskva)

Optimal processes in systems whose transfer functions contain zeroes. Avtom. i telem. 26 no.4:634-641 Ap '65. (MIRA 18:6)

PAVLOV, A.

Schools of communist labor. Grazhd. av. 21 no.5:18-19 My '62.
(MIRA 18:4)

PAVLOV, A.

The Decca radio navigation system in maritime navigation. Mor. flot 25 no.2:24-27 F '65. (MIRA 18:4)

1. Starshiy inzh. Upravleniya svyazi i elektroradionavigatsii Ministerstva morskogo flota.

GETMANOV, R.; GOL'DENBERG, E.; PAVLOV, A.; YUMASHEV, N.N., spets. red.; MIKHAYLOV, A.I., red.

[Collection of problems on traffic regulations for automotive transportation] Sbornik zadach po pravilam dvizheniia avtotransporta. Moskva, Izd-vo DOSAAF, 1965. 351 p. (MIRA 18:7)

L 48958-65 EWT(d)/T IJP(c)

ACCESSION NR: AP5011906 UR/0103/65/026/004/0634/0641

AUTHOR: Pavlov, A. A. (Moscow)

TITLE: Optimum processes in systems whose transfer functions contain zeroes

SOURCE: Avtomatika i telemekhanika, v. 26, no. 4, 1965, 634-641

TOPIC TAGS: zero containing transfer function, optimum control, optimum response system

ABSTRACT: In the theory of automatic control one often encounters systems whose dynamics are characterized by transfer functions of the type

$$W(s)=\frac{X(s)}{U(s)}=\frac{b_0s^{n-1}+b_1s^{n-2}+\ldots+b_{n-1}s+b_n}{a_0s^n+a_1s^{n-1}+\ldots+a_{n-1}s+a_n}, \qquad (1)$$

where x is the controlled coordinate, and u = the control. Transfer processes in such systems are determined as much by the zeroes as by the poles of (1). The literature on the theory of optimum response processes usually discusses transfer functions which do not contain zeroes. However, since the presence of zeroes introduces specific peculiarities into the optimum control problem, the author proceeded to elucidate the characteristics of optimum response systems having type

Card 1/3

(1) transfer functions. Such transfer functions have the corresponding differential equation

$$a_0x^{(n)} + a_1x^{(n-1)} + \ldots + a_{n-1}\dot{x} + a_nx = \\ = b_1u^{(n-1)} + b_2u^{(n-2)} + \ldots + b_{n-1}\dot{u} + b_nu. \qquad (2)$$

which may be replaced by the equivalent system

$$\begin{aligned} \dot{x}_1 &= x_2 + k_1u, \\ &\ldots\ldots\ldots\ldots \\ \dot{x}_{n-1} &= x_n + k_{n-1}u, \\ \dot{x}_n &= -a_1x_n - a_2x_{n-1} - \ldots - a_nx_1 + k_nu, \end{aligned} \qquad (3)$$

where

$$x_1 = x, \quad k_i = b_i - \sum_{j=1}^{i} a_j k_{i-j}, \quad k_0 = b_0 = 0. \qquad (3a)$$

L 48958-65
ACCESSION NR: AP5011906

The authors were able to formulate the problem concerning the transfer of the representative point during a shortest interval of time from an arbitrary initial state into a definite region of the hyperplane $x_1 = 0$ within which the representative point may be found at an arbitrary $t > T$. The problem, however, can have a solution only if the real parts of the transfer function zeroes are negative. The specific properties of the above-mentioned controls and the methods for their synthesis are illustrated for second-order systems. Orig. art. has: 17 formulas and 6 figures.

ASSOCIATION: None

SUBMITTED: 06Jun64 ENCL: 00 SUB CODE: IE, MA

NO REF SOV: 001 OTHER: 001

Card 3/3

PAVLOV, A.A.

Studies of the classifications of map projections. Vest. LGU 19 no.24:145-153 '64 (MIRA 18:1)

PAVLOV, A.A., mladshiy nauchnyy sotrudnik

Daytime observations of stars in Antarctica. Inform. biul. Sob. antark. eksp. no.25:54-55 '61. (MIRA 14:5)

1. Pyataya kontinental'naya ekspeditsiya.
(Stars—Observations)

PAVLOV, A.A. mladshiy nauchnyy sotrudnik

Determinati.n of astropoints in Enderby Land. Inform. biul. sov. antark. eksp. no.37:40-41 '63.

1. Sed'maya kontinental'naya antarkticheskaya ekspeditsiya.
(Enderby Land--Coordinates)

16.9500

69937
S/024/59/000/06/014/028
E023/E235

AUTHOR: Pavlov, A. A. (Moscow)

TITLE: Phase-Space Methods of Designing Some Optimal Relay Systems

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 6, pp 118-126 (USSR)

ABSTRACT: Fig 1 illustrates the relay servo, in which BY is a computer designed to produce the best control law and to apply that law to the relay (unit II is the servomotor) Eq (1.1) describes the system of Fig 1; Eq (1.2) gives the error x and Eq (1.4) specifies the permissible perturbations (the perturbations that satisfy Eq (1.3) Then Eqs (1.6) to (1.8) give the best phase loci; the rest of the working down to (1.14) is routine. The rest of the section is an application of methods given by Fel'dbaum (Refs 1 and 2), in which the shape of the surfaces described by the loci and the best control law are deduced. The second section deals with the synthesis proper; the method is essentially an extension and

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E023/E235

Phase-Space Methods of Designing Some Optimal Relay Systems

reversal of the analysis given in section 1. There are 5 figures and 3 Soviet references.

SUBMITTED: July 23, 1959

Card 2/2

Tavlov, A.A.

PHASE I BOOK EXPLOITATION SOV [illegible]

Avtomaticheskoye upravleniye i vychislitel'naya tekhnika, vyp. 3 (Automatic Control and Computer Techniques, No. 3) Moscow, Mashgiz, [illegible] p. Errata slip inserted. 7,000 copies printed.

Ed. of Publishing House: G.F. Polyakov; Tech. Ed.: T.F. Sokolova, Managing Ed. for Literature on Machine Building and Instrument Making (Mashgiz): N.V. Pokrovskiy, Engineer; Editorial Board: V.V. Solodovnikov, Doctor of Technical Sciences, Professor (Chairman), N.N. Bogolyubov, Academician, A.Yu. Ishlinskiy, Academician, Ukrainian SSR, V.V. Kazakevich, Doctor of Technical Sciences, Professor (Deputy Chairman), A.A. Lyapunov, Doctor of Physics and Mathematics, Professor, B.N. Petrov, Corresponding Member, Academy of Sciences USSR, Ye.P. Popov, Doctor of Technical Sciences, Professor, D.S. Pospelov, Doctor of Techical Sciences, Professor, B.A. Ryabov, Doctor of Technical Sciences, Professor, B.V. Anisimov, Candidate of Technical Sciences, Docent, V.V. Petrov, Doctor of Technical Sciences, Docent, V.N. Plotnikov, Candidate of Technical Sciences, Docent (Scientific Secretary), V.B. Ushakov, Doctor of Technical Sciences.

PURPOSE: This book is intended for scientific workers, engineers, and aspirants working in the field of automatic control.

COVERAGE: The book is the third collection of reports read at the seminar on automatic control and computer engineering of the NTO priborostroyeniya (Scientific and Technical Society for Instrument Making), the MVTU im. Baumana (Moscow Higher Technical School imeni Bauman), and the MAI im. Ordzhonikidze (Moscow "Order of Lenin" Aviation Institute imeni Ordzhonikidze). It contains papers on current topics in automatic control and computer engineering which, according to the authors, are significant for the solution of problems involved in the complex automation of industrial processes by means of control machines and includes discussion of the design of linear and nonlinear automatic control systems. The book covers some questions related to the dynamics of such systems, ways of increasing operational speed, and means of obtaining optimum transient processes. Automatic control systems involving discrete computers, systems with variable parameters, sampled-data [illegible] systems, the dynamic accuracy of these systems during random actions, and the theory of sampled-data systems are discussed. No personalities are mentioned. References are found at the end of each article.

Tsypkin, M.D. On the Nonstationary Properties of Sampled-Data Systems [illegible]

Solodovnikov, A.S. Engineering Methods of the Linear Theory of Control Systems With Variable Parameters 23[illegible]

Batkov, A.M. Certain Problems of the Theory of Linear Systems With Variable Parameters During Random Actions 3[illegible]

Pokrovskiy, N.M. On a Method of Improving the Quality of a Control System by Means of Nonlinear and Computer Devices 37[illegible]

Pavlov, A.A., V.P. Perov[illegible]. Design of Simple Optimal Relay Systems of the Second Order 4[illegible]

[illegible], T.A., V.V. Kazakevich. Stability of Self-Oscillations of Automatic Systems With Compressors and the Suppression of Self-Oscillations by Means of Feedbacks [illegible]

AVAILABLE: Library of Congress

[illegible]

AC/rb/sfm
9/21/60

PAVLOV, A.A., inzh.

Economic efficiency of the concentration of loading operations and of the centralized shipment of freight from intermediate stations under the conditions of the Western Siberian Railroad. Trudy NIIZHT no.33:178-192 '63. (MIRA 17:3)

PAVLOV, A.A.; POPUTSILLO, V.P.

Calculation of simple optimum relay systems of the second order.
Avtom. upr. i vych. tekh. no.3:419-444 '60. (MIRA 13:11)
(Automatic control)

16.8000

S/044/61/000/007/032/055
C111/C222

AUTHORS: Pavlov, A.A., and Poputsillo, V.P.

TITLE: The calculation of the simplest optimal relay systems of second order

PERIODICAL: Referativnyy zhurnal. Matematika, no. 7, 1961, 68, abstract 7 B 312. ("Avtomat. upr. i vychisl. tekhn." vyp 3. M., Mashgiz, 1960, 419-444)

TEXT: The authors consider the problem of the determination of the optimal law of control and the determination of the structure of the optimal controlling part of a system of automatic control.

[Abstracter's note : Complete translation.]

VB

Card 1/1

PAVLOV, A.A. (Moskva)

Optimum rule for the control of a third-order relay system. Izv. AN SSSR. Otd. tekh.nauk. Energ. i avtom. no.4:102-108 Jl-Ag '60. (MIRA 13:8)

(Automatic control)

37332
S/024/62/000/002/003/012
E140/E135

16.6800

AUTHOR: Pavlov, A.A. (Moscow)

TITLE: On reducing the response time of certain third-order contactor regulators

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika, no.2, 1962, 59-71

TEXT: In prior practice optimal control systems of the type described by the title require the use of several non-linear function generators in the computer. For third-order relay systems whose linear portions have only real roots of the characteristic equations a method is proposed here for obtaining approximately optimal systems using only a single non-linear function generator. Among the systems treated there are those for which the linear portion is represented by the series connection of an aperiodic network followed by two integrating networks, two aperiodic and one integrating, three aperiodic, and three integrating networks. The method consists in

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On reducing the response time of ...

projecting the optimal trajectories in three-dimensional phase space onto a certain two-dimensional phase plane. The study of optimal processes in the latter is possible since the coordinates of optimal switching points are first determined in the three-dimensional phase space. The transient processes obtained are approximately optimal - for certain prescribed typical perturbations, e.g. unit step. The calculations are carried out in dimensionless form so that the results can be directly applied in design. The method is also applicable for systems with delay, but here the results will be somewhat further from optimal.
There are 9 figures.

SUBMITTED: December 2, 1961

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